USSTRATCOM Exercise &Training Missile M&S Initiative

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BACKGROUND

- **Fully integrated M&S capability that supports training covering the complete range of USSTRATCOM's missile mission set (ITWAA/BMD/IAMD), systems and information are required for the execution of the USSTRATCOM's associated UCP missions as well as supporting mission requirements to other COCOMs and stakeholders. The range of USSTRATCOM's mission areas in both a supported and supporting role, and the cross COCOM and service reach of its training events and exercises necessitate an ever expanding training and exercise development effort requiring fully integrated modeling and simulation tools which provide the training audience with realistic and responsive training.**

Bottom line: ***WE SUPPORT THE WARFIGHTER!***

BACKGROUND

- **Current training issues**
  - Functional training occurs in isolation (lacks big picture)
  - Lacks synergy
  - Develops a dysfunctional team
    - True teamwork does not occur
    - Each function only looking at its individual function not the whole
  - No cross functional simulation capability that allows for fully integrated dynamic training locally or across COCOMs and services

ATM Top Level Requirement

- CCDRs require a distributed, integrated, synthetic Missile Warning (MW) and Ballistic Missile Defense (BMD) training and exercise modeling and simulation (M&S) capability that stimulates real world display systems that is dynamic, portable, scalable and affordable
  - This new system must cover the full spectrum of the integrated missile situational awareness system from Strategic to Theater, BMD to Integrated Air and Missile Defense.

ATM Top Level Requirement

- **This system must be capable of:**
  - Dynamic missile scenario generation (15 minutes to 6 hour lead time for ROB missile shots depending on number of shots in scenario)
  - Scalability – capable of supporting any single or all levels of exercises/training (T1-T5)
    - Must allow for a resident M&S capability
    - Can tackle individual tiers separately
  - Stimulate all real world missile display systems
    - ITW/AA – PDS-M, STARS, MARS, NPES
    - BMD – C2BMC EWS
    - Theater – PDS-M, GCCS Missile COP
    - Other command display system requirements?
  - Expandable – able to cover all requisite systems, from the fleet to the decision maker, used to feed warning display systems or only those desired for the specific training event or exercise
  - Easily maintained and modified to cover changes in systems and requirements
  - For ROB, show all aspects of the missile simulation from launch to impact including resulting detonation
  - Show BOR response at a secret level and be dynamic to all warning systems

Current Progress

- **Building relationships for this effort**
  - USJFCOM J7/J8
  - NORAD AND USNORTHCOM
  - USPACOM
  - USCENTCOM
  - USFFC
  - USAF
  - JFCC-IMD
  - MDA (advisory role)
- **Briefing community of interest on effort and building support**
  - MDA
  - JCOCAC
  - USFFC
  - OAB
  - WWJTSC
  - BMD JCWC
  - CTTO Conference

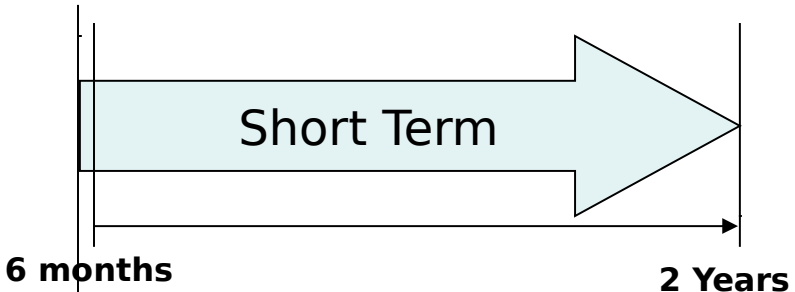
Current Progress

- **Held first ATM requirements conference**
  - NORAD AND USNORTHCOM
  - 100th Missile Brigade
  - USFFC
  - JFCOM J7/J8
  - JFCC-IMD
  - MDA
- **Have begun developing interim STRATEGIC solution (training tiers 1 & 2)**
  - Picking the lowest hanging fruit first
    - Identified possible tiers 1 & 2 BMD interim solution
      - Capability testing ongoing
    - Identified possible ITW/AA SADS solution
      - Testing underway
      - Completing necessary staffing to field capability
    - Identified possible GCCS Missile COP solution
      - Testing underway
      - Resolving issues

Future Actions

- **Work with USJFCOM J7/J8 to establish ATM as a program of record by:**
  - Identifying complete set of training requirements for ATM
  - Developing ATM training pedigree
  - Work though the JCIDS process
  - Identify proposed solutions
  - Develop identified solution

ATM APPROACH



- **Establish partnerships/contacts required to move forward**
- **Define Mission area modeling and simulation requirements (Initial ATM rqmt conf held 8-9 Dec 08)**
  - **Define Terms of reference**
  - **Determine mission area requirements**
- **Develop permanent solution capability roadmap**
- **Develop POA&M**
- **Build on previous successes using current architecture**
- **Resolve short term funding issue**
- **Missile Defense into JTE Seminar (Date TBD)**

USSTRATCOM Training Issues and Recommendations

Questions?

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